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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 204126-0085 7689 Masahiro Otsuka 10/607,688 06/27/2003 EXAMINER 7590 12/30/2005 Perry J. Hoffman Michael Best & Friedrich, LLC MANAHAN, TODD E ART UNIT PAPER NUMBER **Suite 1900** 401 N. Michigan Avenue 3732 Chicago, IL 60611

DATE MAILED: 12/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Tode Examiner			App	lication No.	Applicant(s)		
Examiner Todd E. Manahan Todd E. Mana	Office Action Summany						
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1) Responsive to communication(s) filed on	WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 iun 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of Draftsperson's Patent Drawing Review (PTO-948) 2) Information Disclosure Statement(s) (PTO-1449 or PTO/SB08) Paper No(s)/Mail Date	Status						
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3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/29/03:11/07/03:6/ 1/64 6) Other:		2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
	3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 o	r PTO/SB/08)	· <u>—</u>	Patent Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boutoussov et al. (United States Patent No. 6,439,888) in view of Adam et al. (United States Patent No. 6,419,483).

Boutoussov et al. disclose a dental curing apparatus comprising a light source which is an LED array 200 including a plurality of LEDs 210 arranged such that traveling directions of light rays emitted therefrom become the same direction. A guide member 140 guides the light rays to a predetermined position. A cooling fan 300 forcibly cools the LED array, the drive motor of the fan, and the LED drive circuit (see figure 2). Boutoussov et al. disclose the invention essentially as claimed except for the LED array being driven by a drive electric current larger than a rated electric current. Adam et al. discloses a dental curing apparatus having an LED array as the light source. The LED array is overdriven by supplying a current larger than the rated electric current to increase the intensity of the light emitted and provide faster curing (see col. 3, lines 2-9; col. 5, line 67 through col. 6, line 4). It would have been obvious to one skilled in the art to drive the LED array of Boutoussov et al. by a drive electric current larger than a rated electric current in view of Adam et al. in order to increase the intensity of the light emitted and provide faster curing.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Todd E. Manahan whose telephone number is 571 272- 4713. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571 273-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T.E. Manahan
9 December 2005

Todd E. Manahan Primary Examiner

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